CCR 96-1183B
MAKE CHANGES TO RTM TO ADDRESS EDITORIAL CHANGES FOUND IN MEMO FROM ESDIS (Aug 19, 1996)

TABLE 1 --REVIEW ONLY FOR L3_to_RBR

L3_id	req_key	title	CCR	text	RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	CCR	text	interetat text
IMS-0705	1494	IMS capability to request a subset		The IMS shall provide the capability to request a subset (i.e. scene) of a Landsat 7 subinterval identified by: a. WRS b. Geographic location (x,y,z) spatial with rectangular boundries c. Spectral band d. Time	IMS-0705#B	5205	SDPS	functional	demo	unverified	demo		mission essential		The IMS shall provide the capability to request a subset (ie. scene) of a Landsat 7 subinterval ~~in~~dentified by: a. WRS b. Geographic location (x,,z) spatial with rectangular boundries c. Spectral Band d. Time	
ICC-2120	1527	Accept requests for actvties fr IST		The ICC shall accept instrument deviation requests from the IST.	ICC-2120#B	4084	FOS	functional	demo	unverified	demo		mission essential		The ICC shall accept instrument deviation requests from the IST.	B: Enhced functionali provied.

DADS 0300	674			Each DADS shall generate status information indicating the success or failure of metadata and data consistency checks.	DADS 0300#B	3482	SDPS	functional	test	un-verified	test	un-verified	mission essential		Each DADS shall generate status information indicating the success or failure of metadata and data consistency checks.	Fu capa ity
					DADS 0300#A	6840	SDPS	functional	test	un-verified	test	un-verified	mission essential	96-0921A	Each DADS shall generate status information indicating the success or failure of metadata and data consistency checks.	
EOC-2020	1474	Generate long term operations plan		The EOC shall generate the long-term spacecraft operations plan, based upon, at a minimum, the following: a. LTSP from the IWG. b. LTIPs from the IWG. c. Spacecraft maneuvers and other spacecraft activities that have potential to impact mission operations	EOC-2020#B	3657	FOS	functional	test	un-verified	test	un-verified	mission critical		The EOC shall generate the long-term spacecraft operations plan, based upon, at a minimum, the following: a. LTSP from the IWG. b. LTIPs from the IWG. c. Spacecraft maneuvers and other spacecraft activities that have potential to impact mission operations	
					EOC-2020#	7189	FOS	functional	test	un-verifi	test	un-verifie	miss ion	96-0978	The EOC shall	A: Bas

					A					ed		d	criti cal	A	generate the long-term spacecraft operations plan, based upon, at a minimum, the following: a. LTSP from the IWG. b. LTIPs from the IWG. c. Spacecraft maneuvers and other spacecraft activities that have potential to impact mission operations	on sche led acti es.
EOC-5012	218	Process spacecraft recorder data		The EOC shall be capable of processing spacecraft recorder housekeeping data for all periods of time during which real time data was not received.	EOC-5012#B	3738	FOS	functional	test	un-verified	test		mission critical		The EOC shall be capable of processing spacecraft recorder housekeeping data for all periods of time during which real time data was not received.	
EOC-5220	237	Process RT data up to 50 kbps		The EOC shall be able to process real-time telemetry data at rates up to 50 kbps per spacecraft.	EOC-5220#B	3757	FOS	functional	test	un-verified	test		mission critical		The EOC shall be able to process real-time telemetry data at rates up to 50 kbps per spacecraft.	B: Enh ced fun nali pro ed
EOC-5230	238	Recive/record recorder data		The EOC shall be able to receive and record spacecraft recorder housekeeping data at rates up	EOC-5230#B	3758	FOS	functional	test	un-verified	test		mission critical		The EOC shall be able to receive and record spacecraft	

		1.5Mbps		to 1.544 Mbps.										recorder housekeeping data at rates up to 1.544 Mbps.	
EOC-5240	239	Process history data up to 150 kbps		The EOC shall be able to process history and archived spacecraft recorder housekeeping data at rates up to 150 kbps.	EOC-5240#B	3759	FOS	functional	test	un-verified	test		mission critical		The EOC shall be able to process history and archived spacecraft recorder housekeeping data at rates up to 150 kbps.	
EOC-7010	1346			The EOS ~~Data Base~~ spacecraft and instrument database, referred to as the Project Data Base (PDB) shall include at a minimum the following: a. Housekeeping data formats b. Housekeeping data parameter descriptions c. Command descriptions d. Syntactical rules for commands and operator directives e. Operator directives f. Display formats g. Planning and scheduling definitions and constraints h. Analysis algorithms i. Report formats j. NCC configuration codes k. Derived telemetry	EOC-7010#B	3776	FOS	functional	demo	un-verified	demo		mission critical		The EOS ~~Data Base~~ spacecraft and instrument database, referred to as the Project Data Base (PDB) shall include at a minimum the following: a. Housekeeping data formats b. Housekeeping data parameter descriptions c. Command descriptions d. Syntactical rules for commands and operator directives e. Operator directives f. Display formats g. Planning and scheduling definitions and constraints i. Report formats j. NCC configuration	B: Enh ced fun nali pro ed.

				parameter equations l. Telemetry parameter limits m. Characteristics of spacecraft and its instruments n. Command validation parameters o. Operations procedures										codes l. Telemetry parameter limits m. Characteristics of spacecraft and its instruments n. Command validation parameters o. Operations procedures	
					EOC-7010#A	7552	FOS	functional	demo	un-verified	demo	un-verified	mission critical	96-0957A	The EOS ~~Data Base~~ spacecraft and instrument database, referred to as the Project Data Base (PDB) shall include at a minimum the following: a. Housekeeping data formats b. Housekeeping data parameter descriptions c. Command descriptions d. Syntactical rules for commands and operator directives e. Operator directives f. Display formats g. Planning and scheduling definitions and constraints i. Report formats j. NCC configuration	A: Bas fun nali as defi in Lev 4 requ mer

															codes l. Telemetry parameter limits m. Characteristics of spacecraft and its instruments n. Command validation parameters o. Operations procedures	
EOSD 1680	1261	Receipt of S/W loads from Simulator		ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software Development and Validation Facility (SDVF).	EOSD 1680#B	6221	mission essential	FOS	interface	test	un-verified	test	un-verified		ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software Development and Validation Facility (SDVF)	
EOSD 5110	114	GCDIS Use of ECS Data Srvs & S/W.		ECS shall enable the separate use of ECS data management, data processing, or data archive and distribution software components by a GCDIS data center. The GCDIS data centers will have full responsibility for integration of those components within their environment. Interfaces	EOSD 5110#B	5596	mission fulfillment	SDPS | CSMS	procedural | evolvable	analysis	un-verified	analysis	un-verified		ECS shall enable the separate use of ECS data management, data processing, or data archive and distribution software components by a GCDIS data center. The GCDIS data centers	The segm t desig speci ation will discu comp ance DID 305/

				between the components must be developed to serve the mission of EOSDIS, but be made available for a GCDIS data center.										will have full responsibility for integration of those components within their environment. Interfaces between the components must be developed to serve the mission of EOSDIS, but be made available for a GCDIS data center.	V2. Addi nal demc tratic of com ance will docu nted upda to D 313/ V3 a 207/ 1.
					EOSD 5110# A	7425	mission fulfillm ent	SDPS | CSMS	pro ced ural | evo lva ble	analy sis	un- verifie d	analysi s	un- verif ied	96- 092 0B	ECS shall enable the separate use of ECS data management, data processing, or data archive and distribution software components by a GCDIS data center. The GCDIS data centers will have full responsibility for integration of those components within their environment. Interfaces between	The segm t desig spec ation will discu com ance DID 305/ V2. Addi nal demc tratic of

															the components must be developed to serve the mission of EOSDIS, but be made available for a GCDIS data center.	com ance will docu nted upda to D 313/ V3 a 207/ 1.
ICC-3240	385	Generate/val preplanned instr. cmd		The ICC shall generate and validate a preplanned instrument command in response to an instrument command request from the ~~t~~ PI/TL at the IST.	ICC-3240#B	4509	FOS	functional	test	un-verified	test		mission essential		The ICC shall generate and validate a preplanned instrument command in response to an instrument command request from the PI/TL at the IST.	
PGS-0610	1285			The PGS shall accept from the SCFs new or ~~modi-ed~~ modified ~~-~~calibration coefficients to be validated in the test environment. Calibration coefficients shall contain the following information at a minimum: a. Identification of coefficient data set b. Calibration coefficients values c. Author and version number d. Identification of	PGS-0610#B	4886	SDPS	functional	test	un-verified	test		mission essential		The PGS shall accept from the SCFs new or modified calibration coefficients to be validated in the test environment. Calibration coefficients shall contain the following information at a minimum: a. Identification of coefficient data set	

				related processing algorithm e. Start and stop date/time of applicability f. Date and time g. SCF identification h. Reasons for update											b. Calibration coefficients values c. Author and version number d. Identification of related processing algorithm e. Start and stop date/time of applicability f. Date and time g. SCF identification h. Reasons for update	
SDPS 0030	1605	Standard Products production.	96-0914A	The SDPS shall produce Standard Products (as listed in Appendix C, including prototype products on a time-available basis) for EOS instruments based on the algorithms source code and calibration coefficients supplied by EOS scientists.	SDPS 0030#B	5071	SDPS	functional	test	un-verified	test		mission essential		The SDPS shall produce Standard Products (as listed in Appendix C, including prototype products on a time-available basis) for EOS instruments based on the algorithms source code and calibration coef~~§~~ ficients supplied by EOS scientists.	B: AM

Table 2 -- L3 changes tables:

L3_id	req_key	title	CCR	text

IMS-0705	1494	IMS capability to request a subset		The IMS shall provide the capability to request a subset (i.e. scene) of a Landsat 7 subinterval identified by: a. WRS b. Geographic location (x,y,z) spatial with rectangular boundries c. Spectral band d. Time
ICC-2120	1527	Accept requests for actvties fr IST		The ICC shall accept instrument deviation requests from the IST.
DADS0300	674	Generate status info for metadata		Each DADS shall generate status information indicating the success or failure of metadata and data consistency checks.
EOC-2020	1474	Generate long term operations plan		The EOC shall generate the long-term spacecraft operations plan, based upon, at a minimum, the following: a. LTSP from the IWG. b. LTIPs from the IWG. c. Spacecraft maneuvers and other spacecraft activities that have potential to impact mission operations
EOC-5012	218	Process spacecraft recorder data		The EOC shall be capable of processing spacecraft recorder housekeeping data for all periods of time during which real time data was not received.
EOC-5220	237	Process RT data up to 50 kbps		The EOC shall be able to process real-time telemetry data at rates up to 50 kbps per spacecraft.
EOC-5230	238	Recive/record recorder data 1.5Mbps		The EOC shall be able to receive and record spacecraft recorder housekeeping data at rates up to 1.544 Mbps.
EOC-5240	239	Process history data up to 150 kbps		The EOC shall be able to process history and archived spacecraft recorder housekeeping data at rates up to 150 kbps.
EOC-7010	1346	Spacecraft & instrument database		The EOS ~~Data Base~~ spacecraft and instrument database, referred to as the Project Data Base (PDB) shall include at a minimum the following:

				a. Housekeeping data formats b. Housekeeping data parameter descriptions c. Command descriptions d. Syntactical rules for commands and operator directives e. Operator directives f. Display formats g. Planning and scheduling definitions and constraints h. Analysis algorithms i. Report formats j. NCC configuration codes k. Derived telemetry parameter equations l. Telemetry parameter limits m. Characteristics of spacecraft and its instruments n. Command validation parameters o. Operations procedures
EOSD1680	1261	Receipt of S/W loads from Simulator		ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software Development and Validation Facility (SDVF).
EOSD5110	114	GCDIS Use of ECS Data Srvs & S/W.		ECS shall enable the separate use of ECS data management, data processing, or data archive and distribution software components by a GCDIS data center. The GCDIS data centers will have full responsibility for integration of those components within their environment. Interfaces between the components must be developed to serve the mission of EOSDIS, but be made available for a GCDIS data center.
ICC-3240	385	Generate/val preplanned instr. cmd		The ICC shall generate and validate a preplanned instrument command in response to an instrument command request from the ~~t~~ PI/TL at the IST.
PGS-0610	1285	Accept calibration coefficients		The PGS shall accept from the SCFs new or ~~modi-ed~~ modified calibration coefficients to be validated in the test environment. Calibration coefficients shall contain the following information at a minimum: a. Identification of coefficient data set

				b. Calibration coefficients values c. Author and version number d. Identification of related processing algorithm e. Start and stop date/time of applicability f. Date and time g. SCF identification h. Reasons for update

TABLE 3 -- RBR Changes Tables:

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	CCR	text	interpretation text	clarification
IMS-0705#B	5205	mission essential	SDPS	functional	demo	un-verified	demo	un-verified		The IMS shall provide the capability to request a subset (ie. scene) of a Landsat 7 subinterval ~~in~~dentified by: a. WRS b. Geographic location (x,,z) spatial with rectangular boundries c. Spectral Band d. Time		
DADS 0300#B	3482	mission essential	SDPS	functional	test	un-verified	test	un-verified		Each DADS shall generate status	Full capability	

										information indicating the success or failure of metadata and data consistency checks.	
DADS 0300#A	6840	mission essential	SDPS	functional	test	un-verified	test	un-verified	96-0921A	Each DADS shall generate status information indicating the success or failure of metadata and data consistency checks.	
EOC-2020#B	3657	mission critical	FOS	functional	test	un-verified	test	un-verified		The EOC shall generate the long-term spacecraft operations plan, based upon, at a minimum, the following: a. LTSP from the IWG. b. LTIPs from the IWG. c. Spacecraft maneuvers and other spacecraft activities that have potential to impact mission operations	
EOC-2020#A	7189	mission critical	FOS	functional	test	un-verified	test	un-verified	96-0978A	The EOC shall generate the long-term spacecraft operations plan, based upon, at a minimum, the following: a. LTSP from the IWG. b. LTIPs from the IWG. c. Spacecraft maneuvers	A: Based on scheduled activities.

										and other spacecraft activities that have potential to impact mission operations	
EOC-5012#B	3738	mission critical	FOS	functional	test	un-verified	test	un-verified		The EOC shall be capable of processing spacecraft recorder housekeepingdata for all periods of time during which real time data was not received.	
EOC-5220#B	3757	mission critical	FOS	functional	test	un-verified	test	un-verified		The EOC shall be able to process real-time telemetry data at rates up to 50 kbps per spacecraft.	B: Enhanced functionality provided
EOC-5230#B	3758	mission critical	FOS	functional	test	un-verified	test	un-verified		The EOC shall be able to receive and record spacecraft recorder housekeepingdata at rates up to 1.544 Mbps.	
EOC-5240#B	3759	mission critical	FOS	functional	test	un-verified	test	un-verified		The EOC shall be able to process history and archived spacecraft recorder housekeeping data at rates up to 150 kbps.	
EOC-7010#B	3776	mission critical	FOS	functional	demo	un-verified	demo	un-verified		The EOS ~~Data Base~~ spacecraft and instrument database, referred to as	B: Enhanced functionality provided.

										the Project Data Base (PDB) shall include at a minimum the following: a. Housekeeping data formats b. Housekeeping data parameter descriptions c. Command descriptions d. Syntactical rules for commands and operator directives e. Operator directives f. Display formats g. Planning and scheduling definitions and constraints i. Report formats j. NCC configuration codes l. Telemetry parameter limits m. Characteristics of spacecraft and its instruments n. Command validation parameters o. Operations procedures	
EOC-7010#A	7552	mission critical	FOS	functional	demo	un-verified	demo	un-verified	96-0957A	The EOS ~~Data Base~~ spacecraft and instrument database, referred to as the Project Data Base (PDB) shall include at a minimum the following: a. Housekeeping data	A: Basic functionality as defined in Level 4 requirements.

										formats b. Housekeeping data parameter descriptions c. Command descriptions d. Syntactical rules for commands and operator directives e. Operator directives f. Display formats g. Planning and scheduling definitions and constraints i. Report formats j. NCC configuration codes l. Telemetry parameter limits m. Characteristics of spacecraft and its instruments n. Command validation parameters o. Operations procedures	
EOSD 1680#B	6221	mission essential	FOS	interface	test	un-verified	test	un-verified		ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software Development and Validation Facility (SDVF)	
EOSD		mission	SDPS |	proce	analy	un-	analys	un-			The segment

5110#B	5596	fulfillment	CSMS	dural | evolvable	sis	verified	is	verified		ECS shall enable the separate use of ECS data management, data processing, or data archive and distribution software components by a GCDIS data center. The GCDIS data centers will have full responsibility for integration of those components within their environment. Interfaces between the components must be developed to serve the mission of EOSDIS, but be made available for a GCDIS data center.	design specification will discuss compliance in DID 305/DV2. Additional demonstration of compliance will be documented in updates to DID 313/DV3 and 207/SE1.
EOSD 5110#A	7425	mission fulfillment	SDPS | CSMS	procedural | evolvable	analysis	un-verified	analysis	un-verified	96-0920B	ECS shall enable the separate use of ECS data management, data processing, or data archive and distribution software components by a GCDIS data center. The GCDIS data centers will have full responsibility for integration of those components within their environment. Interfaces between the components must	The segment design specification will discuss compliance in DID 305/DV2. Additional demonstration of compliance will be documented in updates to DID 313/DV3 and

										be developed to serve the mission of EOSDIS, but be made available for a GCDIS data center.	207/SE1.
SDPS 0030#B	5071	mission essential	SDPS	functional	test	un-verified	test	un-verified		The SDPS shall produce Standard Products (as listed in Appendix C, including prototype products on a time-available basis) for EOS instruments based on the algorithms source code and calibration coefficients supplied by EOS scientists.	B: AM-1